FIG.1

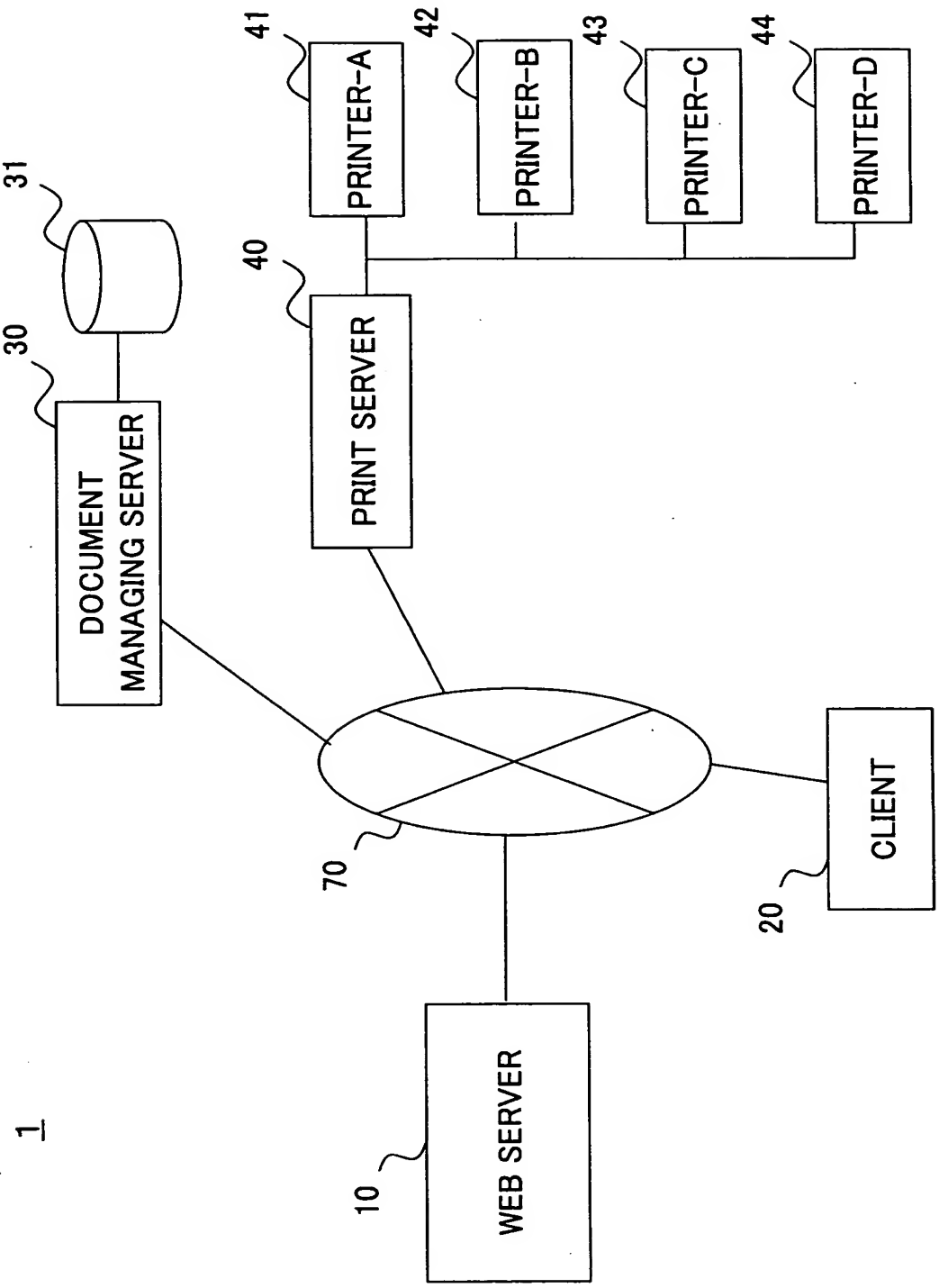

1
WEB SERVER
10
DOCUMENT MANAGING SERVER
30
31
PRINT SERVER
40
PRINTER-A
41
PRINTER-B
42
PRINTER-C
43
PRINTER-D
44
70
CLIENT
20

FIG.2

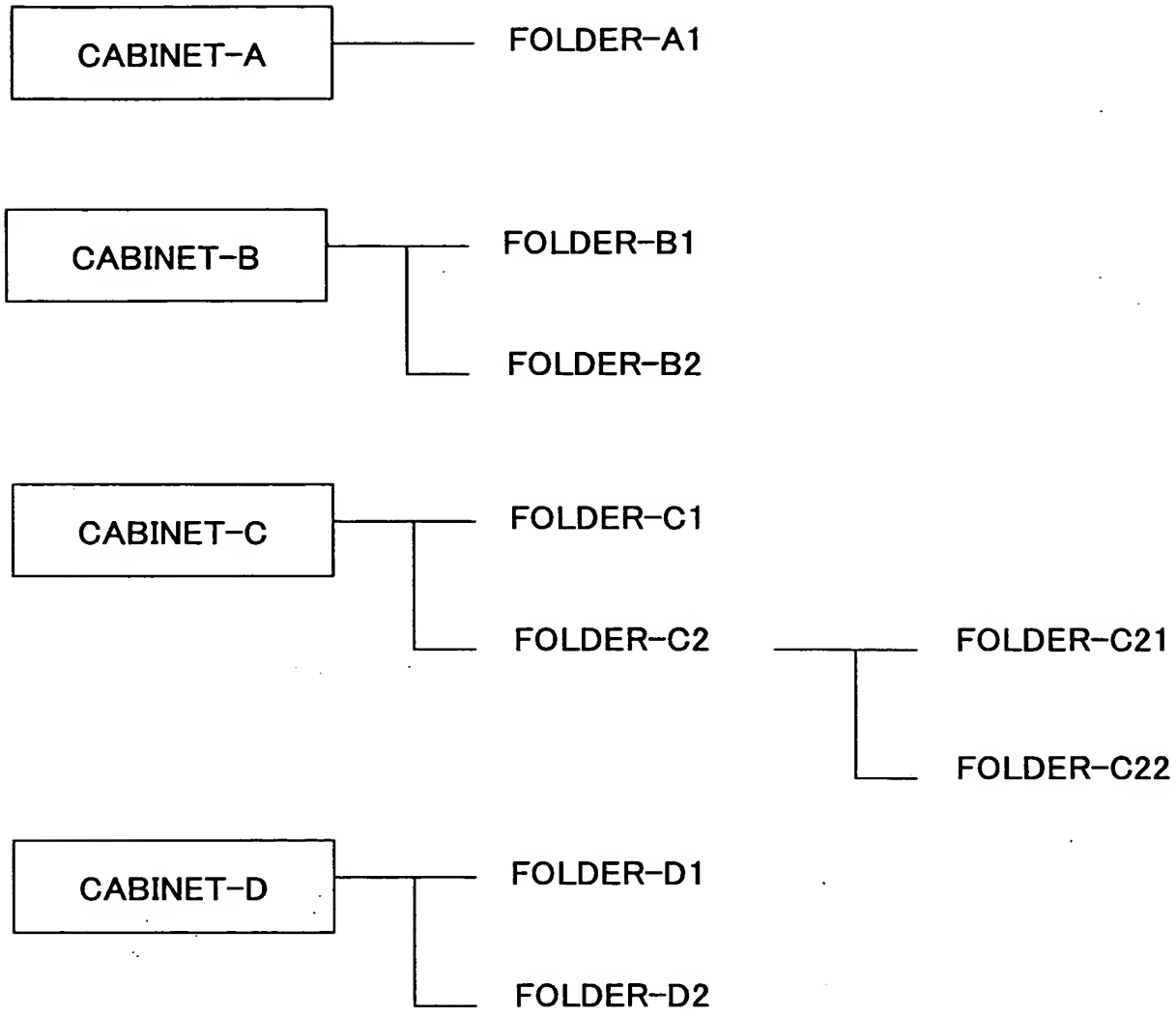

CABINET-A
FOLDER-A1
CABINET-B
FOLDER-B1
FOLDER-B2
CABINET-C
FOLDER-C1
FOLDER-C2
FOLDER-C21
FOLDER-C22
CABINET-D
FOLDER-D1
FOLDER-D2

FIG.3

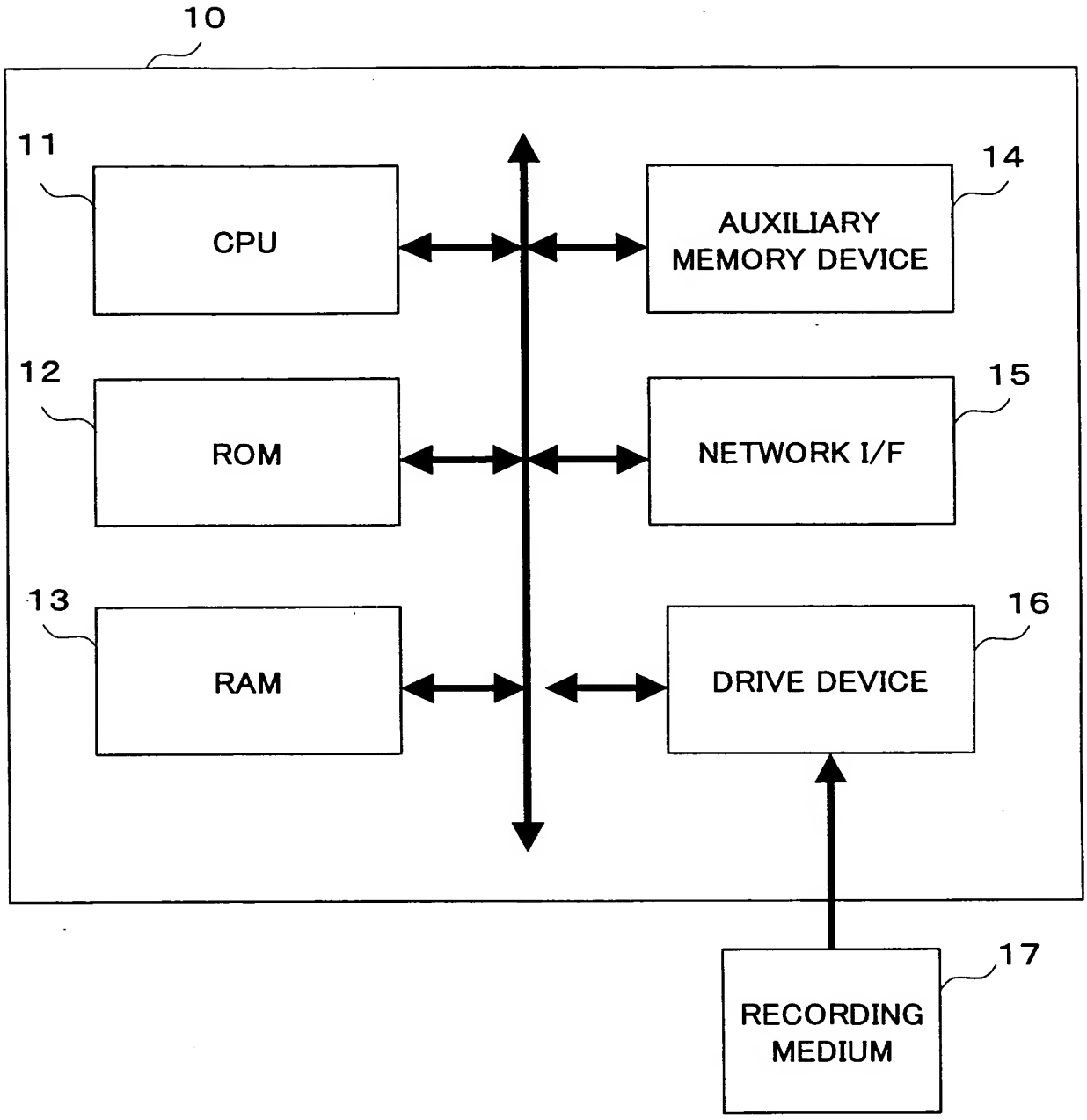

10
11
CPU
12
ROM
13
RAM
14
AUXILIARY MEMORY DEVICE
15
NETWORK I/F
16
DRIVE DEVICE
17
RECORDING MEDIUM

FIG.4

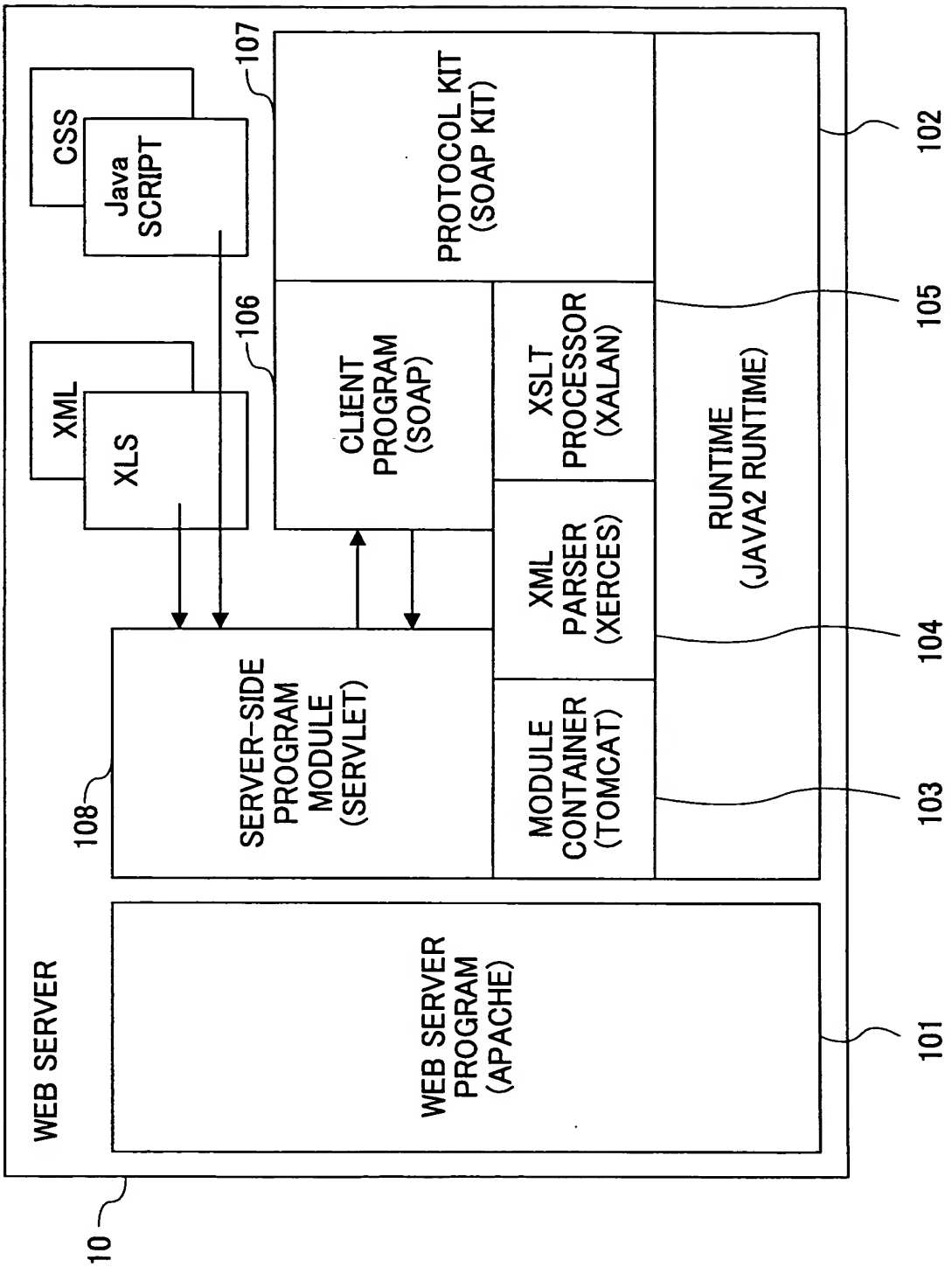

WEB SERVER
WEB SERVER PROGRAM (APACHE)
SERVER-SIDE PROGRAM MODULE (SERVLET)
MODULE CONTAINER (TOMCAT)
XML PARSER (XERCES)
XSLT PROCESSOR (XALAN)
CLIENT PROGRAM (SOAP)
PROTOCOL KIT (SOAP KIT)
RUNTIME (JAVA2 RUNTIME)
CSS
Java SCRIPT
XML
XLS
10
101
102
103
104
105
106
107
108

FIG.5

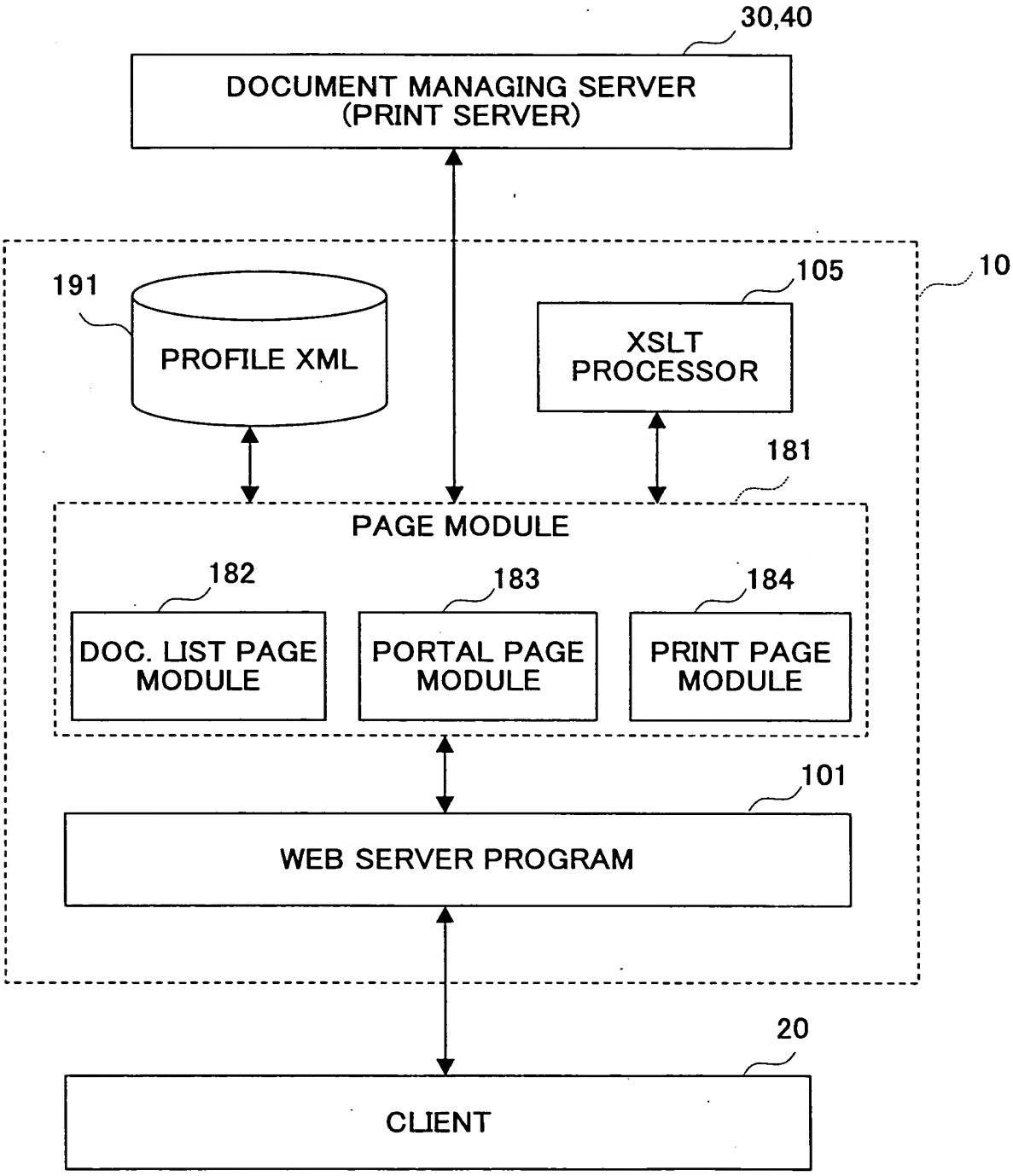

30,40
DOCUMENT MANAGING SERVER
(PRINT SERVER)
10
191
PROFILE XML
105
XSLT
PROCESSOR
181
PAGE MODULE
182
DOC. LIST PAGE
MODULE
183
PORTAL PAGE
MODULE
184
PRINT PAGE
MODULE
101
WEB SERVER PROGRAM
20
CLIENT

FIG.6

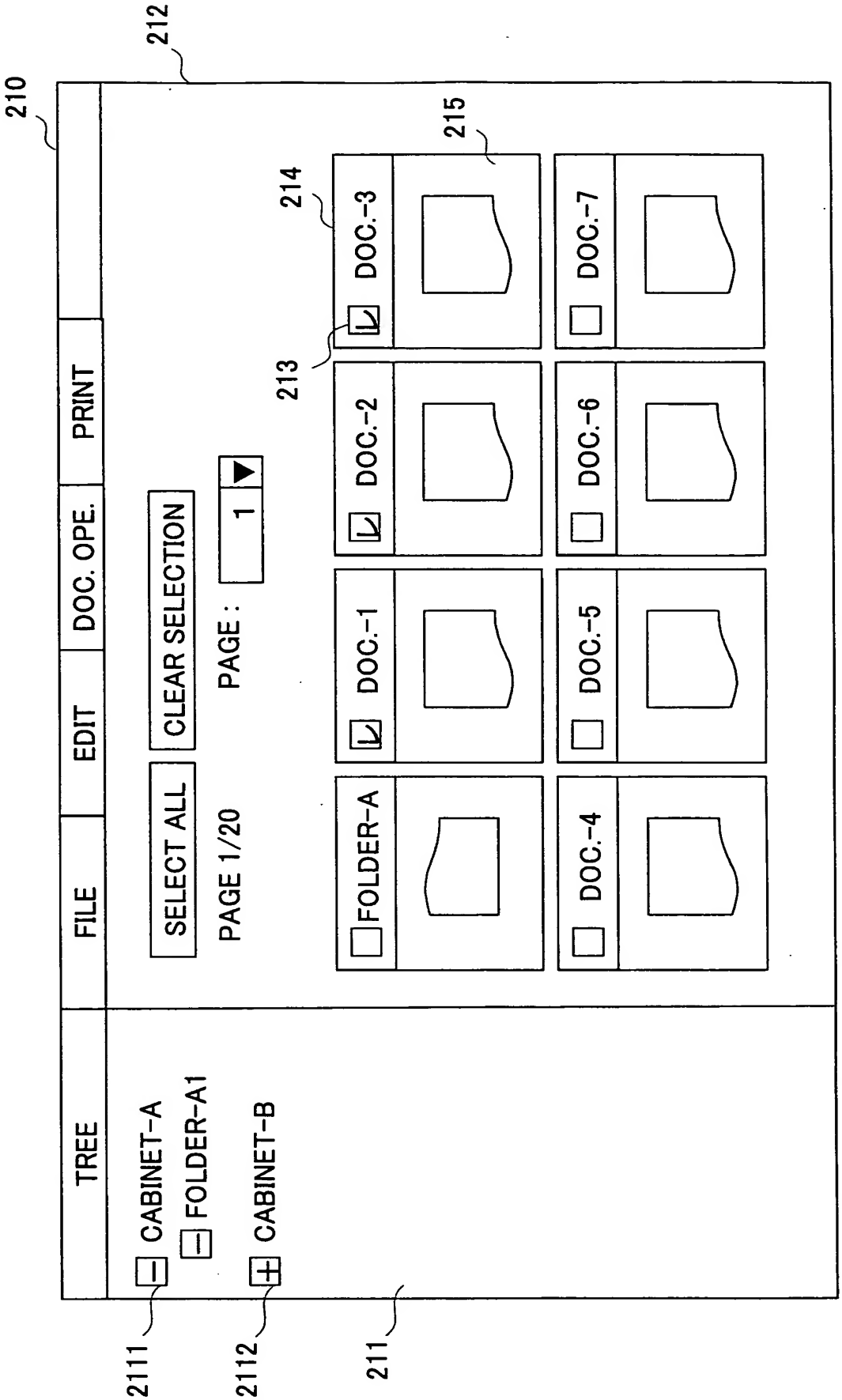

210
212
TREE
FILE
EDIT
DOC. OPE.
PRINT
SELECT ALL
CLEAR SELECTION
PAGE 1/20
PAGE :
1
214
215
213
DOC.-3
DOC.-7
DOC.-2
DOC.-6
DOC.-1
DOC.-5
FOLDER-A
DOC.-4
CABINET-A
FOLDER-A1
CABINET-B
2111
2112
211

FIG.7

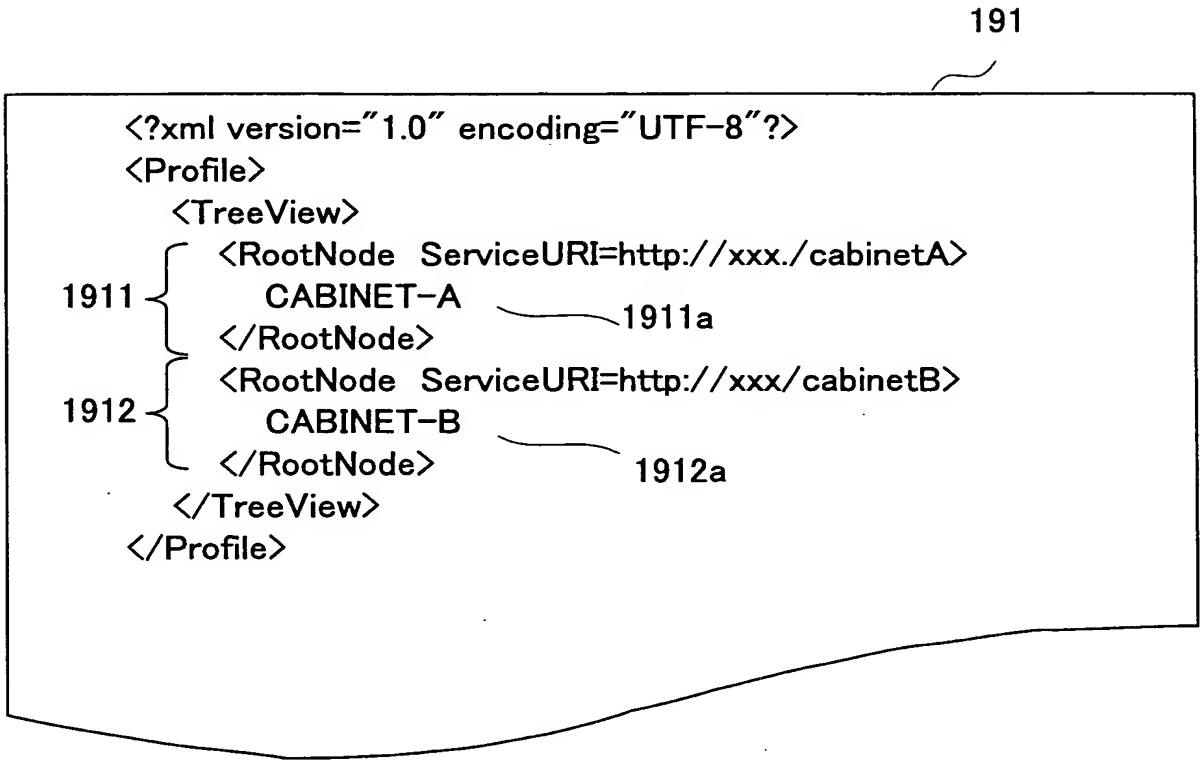

191
<?xml version="1.0" encoding="UTF-8"?>
<Profile>
<TreeView>
<RootNode ServiceURI=http://xxx./cabinetA>
1911
CABINET-A
1911a
</RootNode>
<RootNode ServiceURI=http://xxx/cabinetB>
1912
CABINET-B
1912a
</RootNode>
</TreeView>
</Profile>

FIG.8

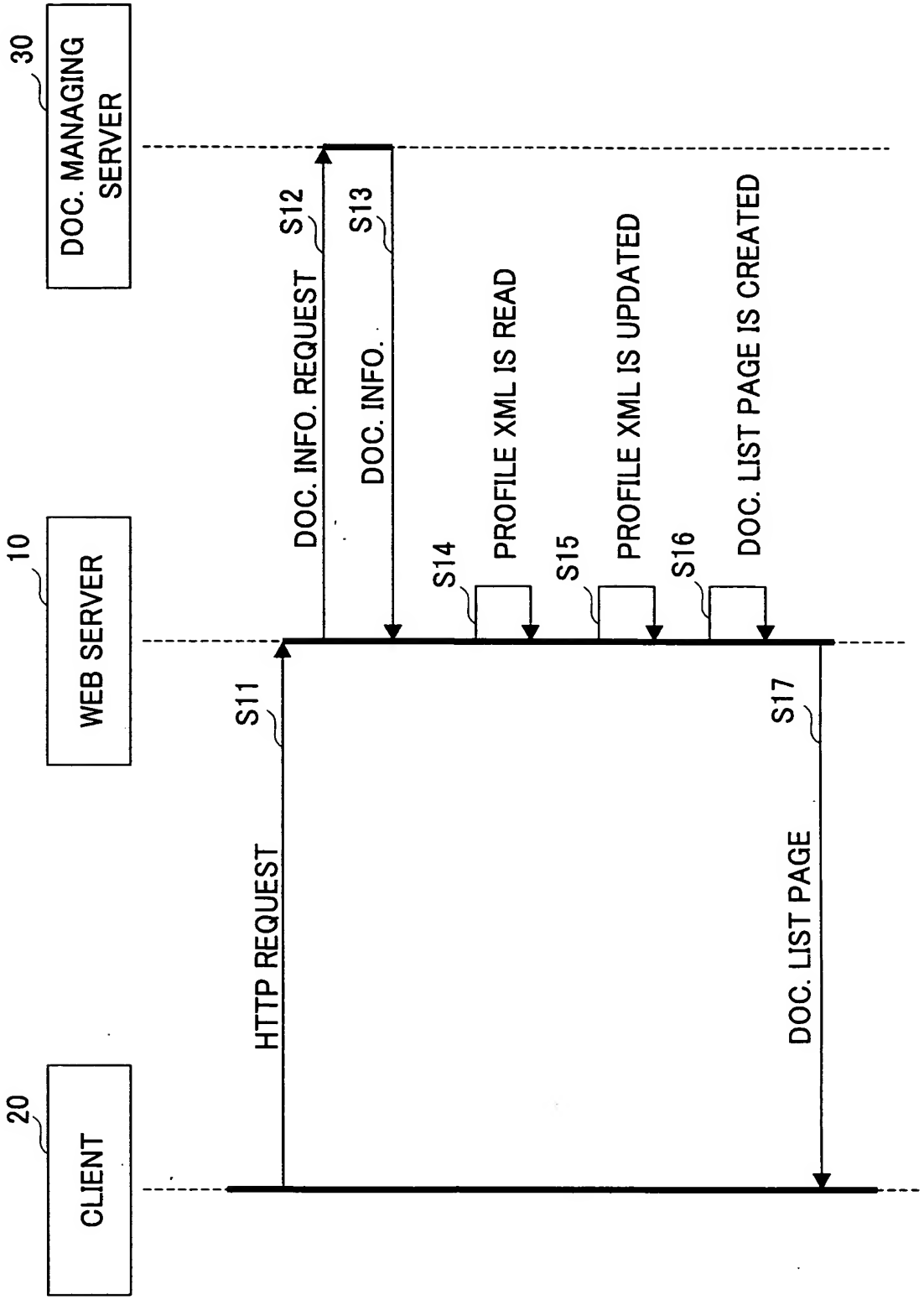

30
DOC. MANAGING SERVER
10
WEB SERVER
20
CLIENT
S11
HTTP REQUEST
S12
DOC. INFO. REQUEST
S13
DOC. INFO.
S14
PROFILE XML IS READ
S15
PROFILE XML IS UPDATED
S16
DOC. LIST PAGE IS CREATED
S17
DOC. LIST PAGE

FIG.9

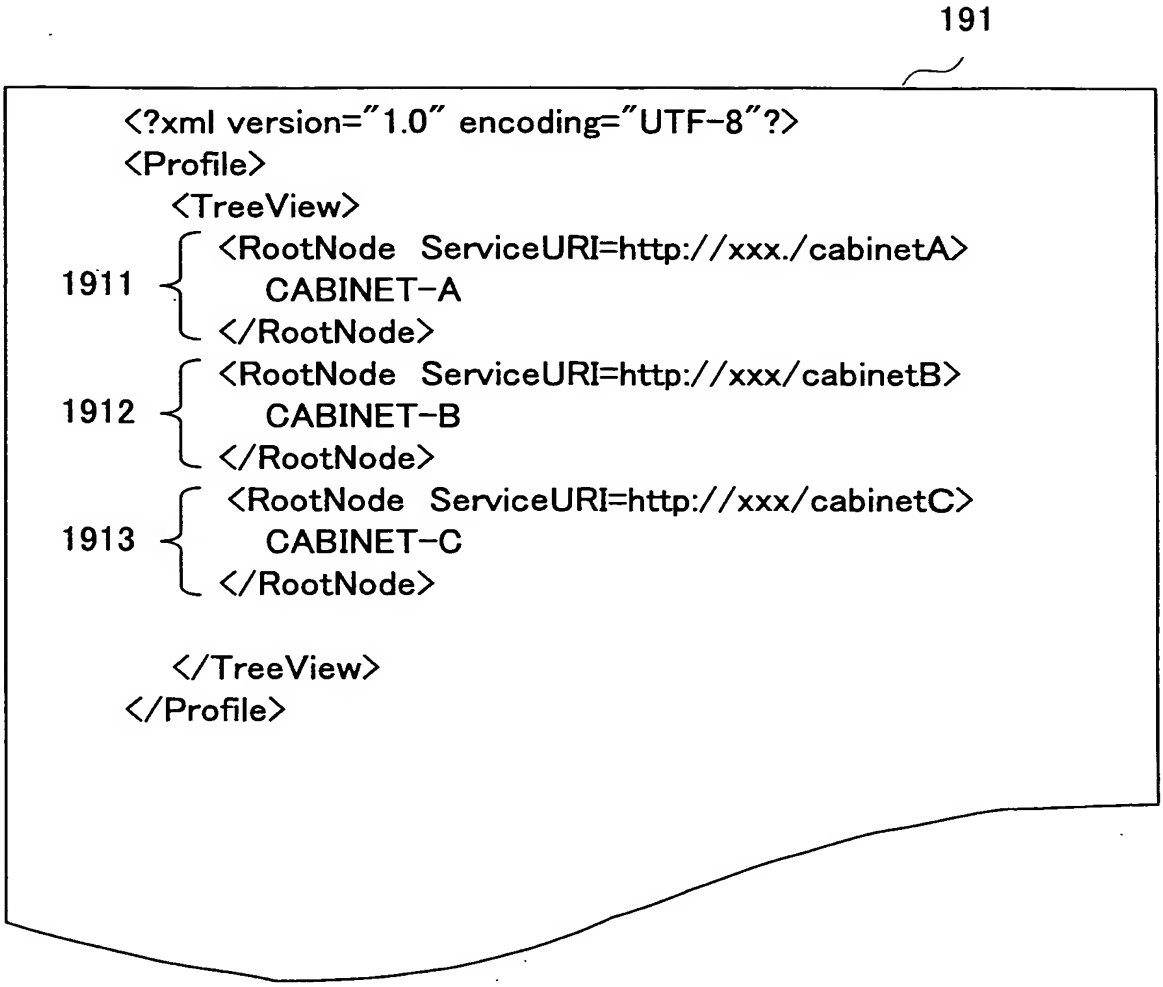

191
<?xml version="1.0" encoding="UTF-8"?>
<Profile>
<TreeView>
1911
<RootNode ServiceURI=http://xxx./cabinetA>
CABINET-A
</RootNode>
1912
<RootNode ServiceURI=http://xxx/cabinetB>
CABINET-B
</RootNode>
1913
<RootNode ServiceURI=http://xxx/cabinetC>
CABINET-C
</RootNode>
</TreeView>
</Profile>

FIG.10

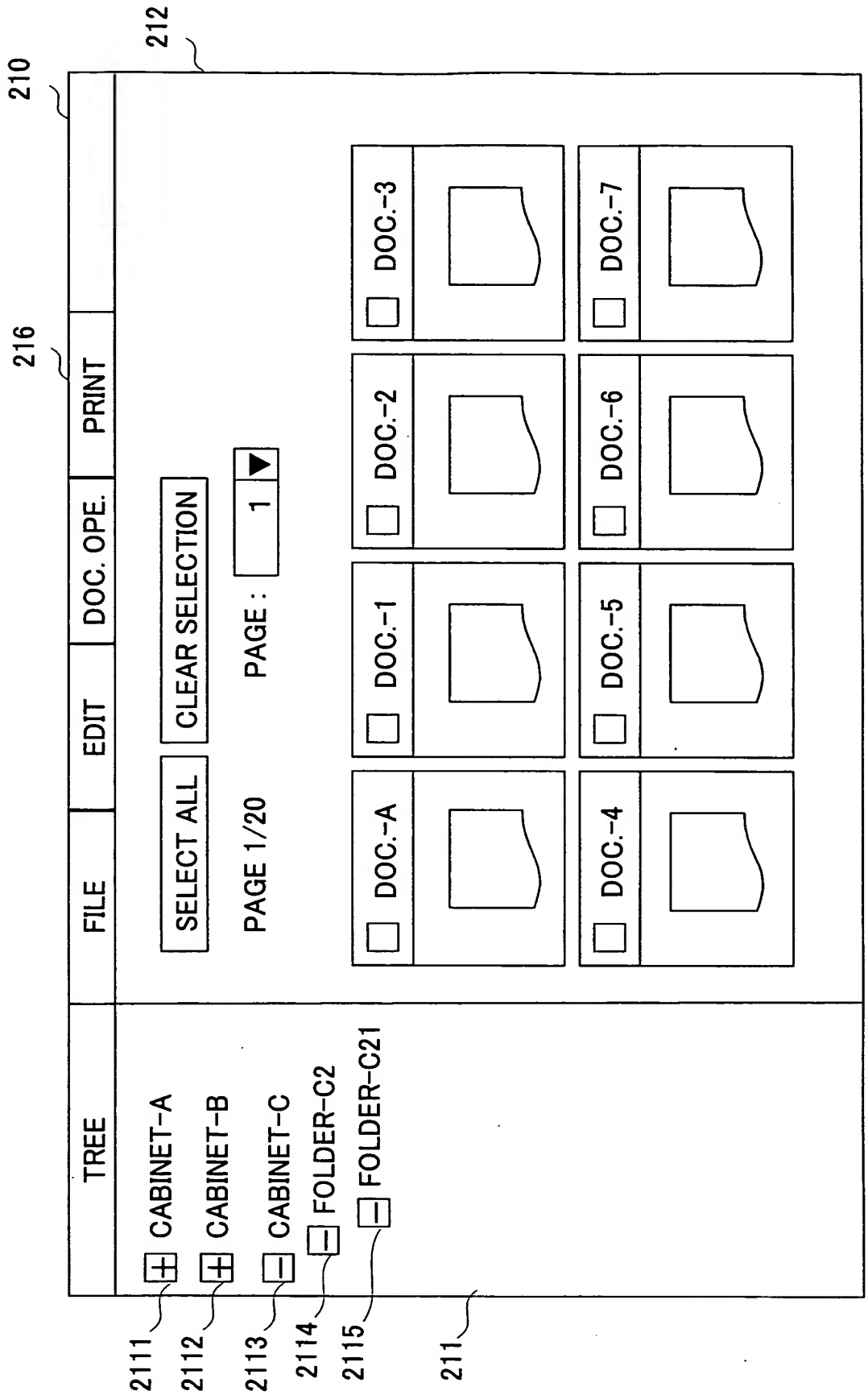

210
212
216
TREE
FILE
EDIT
DOC. OPE.
PRINT
SELECT ALL
CLEAR SELECTION
PAGE 1/20
PAGE : 1
CABINET-A
CABINET-B
CABINET-C
FOLDER-C2
FOLDER-C21
DOC.-A
DOC.-1
DOC.-2
DOC.-3
DOC.-4
DOC.-5
DOC.-6
DOC.-7
2111
2112
2113
2114
2115
211

FIG.11

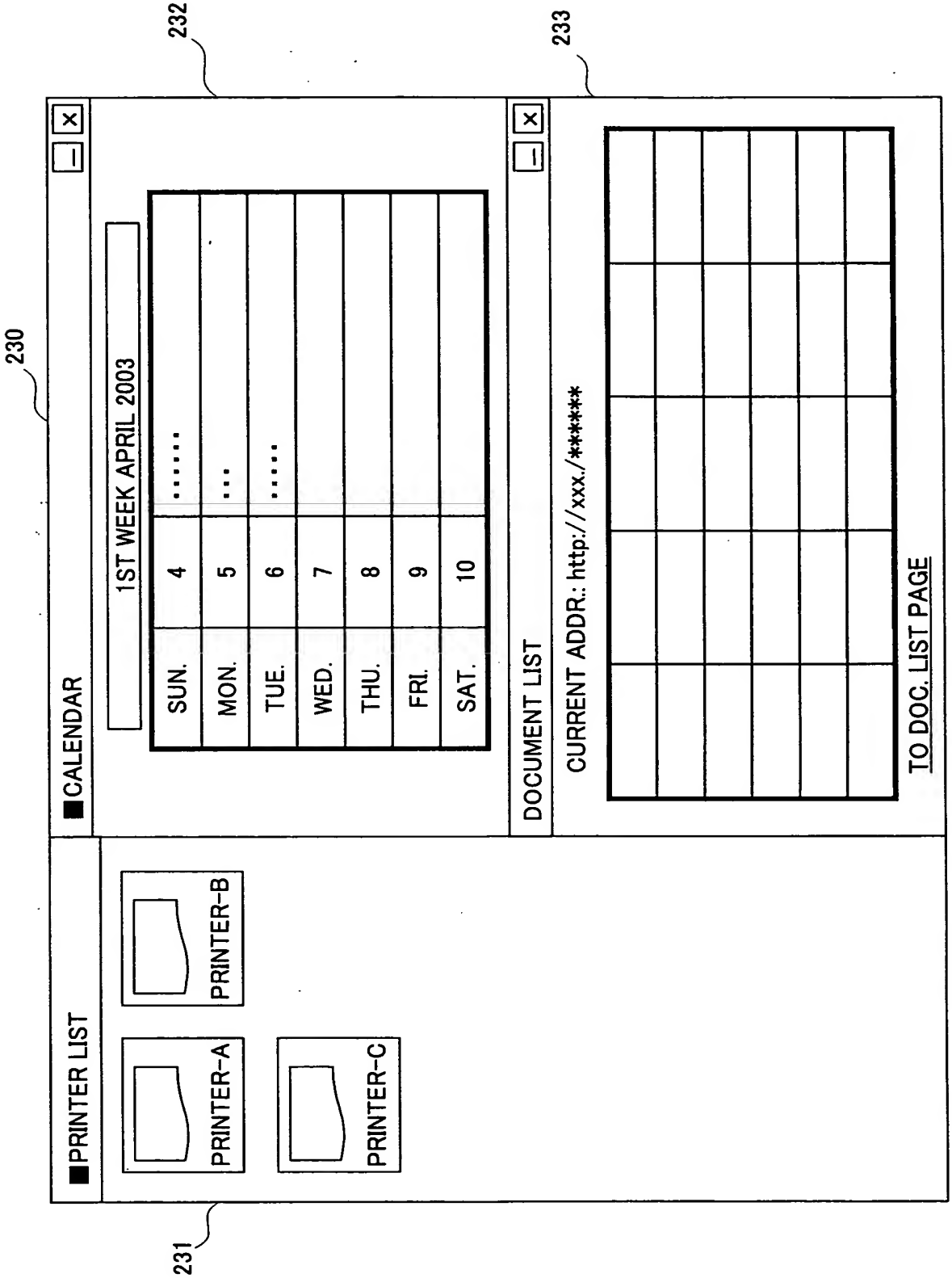

230
231
232
233
CALENDAR
1ST WEEK APRIL 2003
SUN.
MON.
TUE.
WED.
THU.
FRI.
SAT.
4
5
6
7
8
9
10
.....
...
.....
DOCUMENT LIST
CURRENT ADDR.: http://xxx./******
TO DOC. LIST PAGE
PRINTER LIST
PRINTER-A
PRINTER-B
PRINTER-C

FIG.12

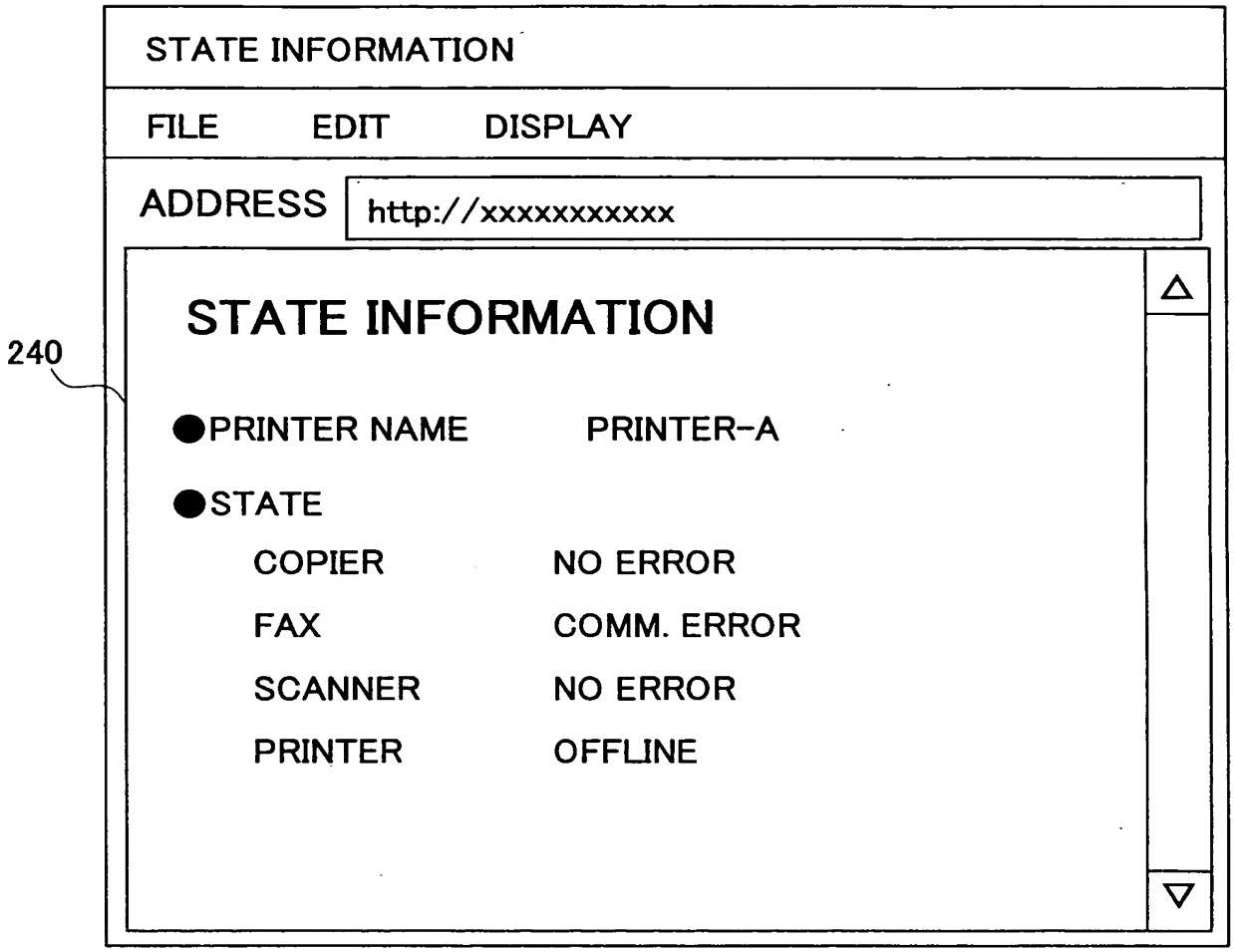

STATE INFORMATION
FILE
EDIT
DISPLAY
ADDRESS
http://xxxxxxxxxxx
STATE INFORMATION
240
●PRINTER NAME
PRINTER-A
●STATE
COPIER
NO ERROR
FAX
COMM. ERROR
SCANNER
NO ERROR
PRINTER
OFFLINE

FIG.13

191

```
<?xml version="1.0" encoding="UTF-8"?>
<Profile>
  <PrinterList>
    <Printer IPAddress="xxx.xxx.xxx.aaa">
      PRINTER-A
    </Printer>
    <Printer IPAddress="xxx.xxx.xxx.bbb">
      PRINTER-B
    </Printer>
    <Printer IPAddress="xxx.xxx.xxx.ccc">
      PRINTER-C
    </Printer>
  </PrinterList>
</Profile>
```

1915

1916

1917

FIG.14

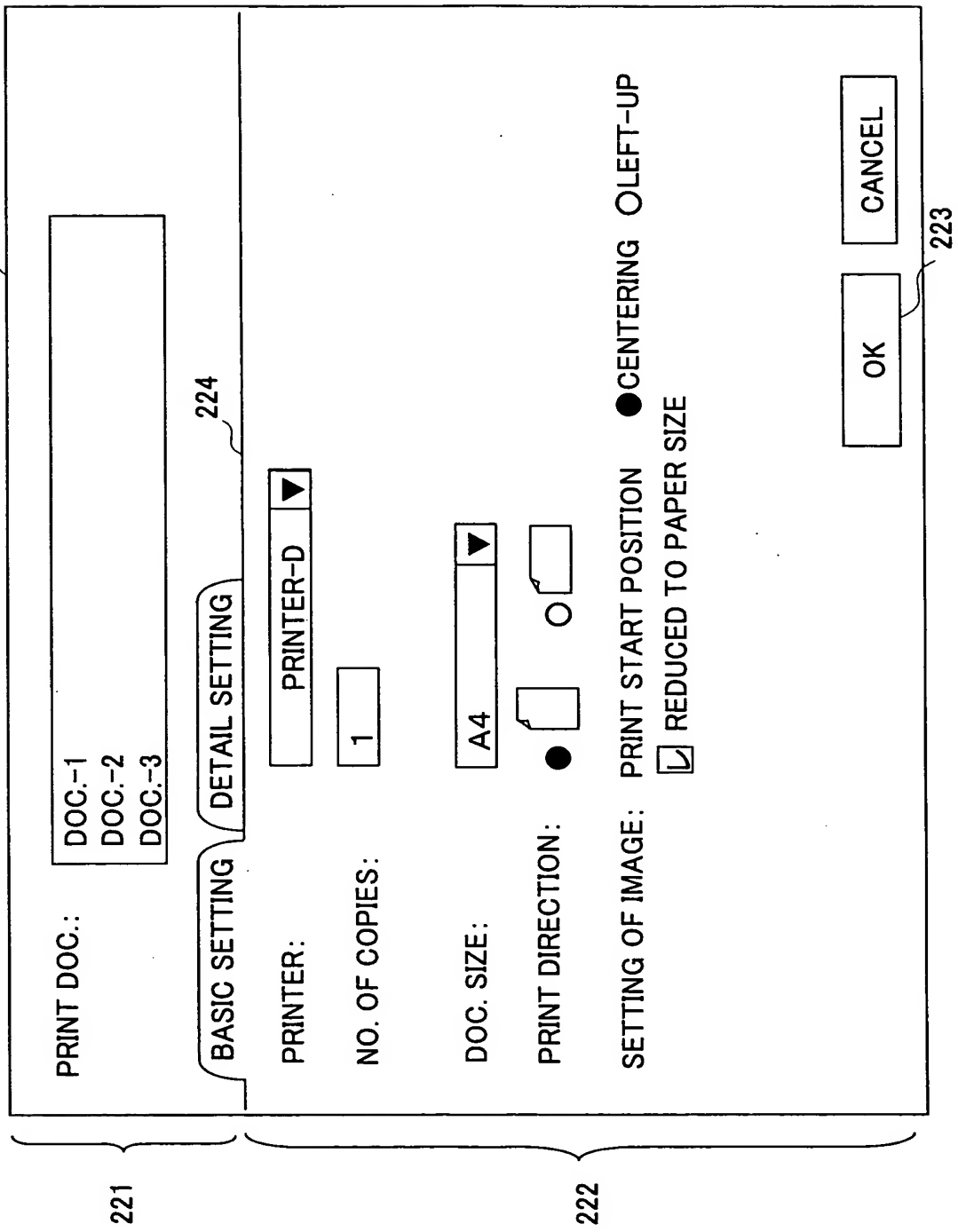

220
PRINT DOC.:
DOC.-1
DOC.-2
DOC.-3
BASIC SETTING
DETAIL SETTING
224
PRINTER:
PRINTER-D
NO. OF COPIES:
1
DOC. SIZE:
A4
PRINT DIRECTION:
SETTING OF IMAGE:
PRINT START POSITION
CENTERING
LEFT-UP
REDUCED TO PAPER SIZE
OK
CANCEL
223
221
222

FIG.15

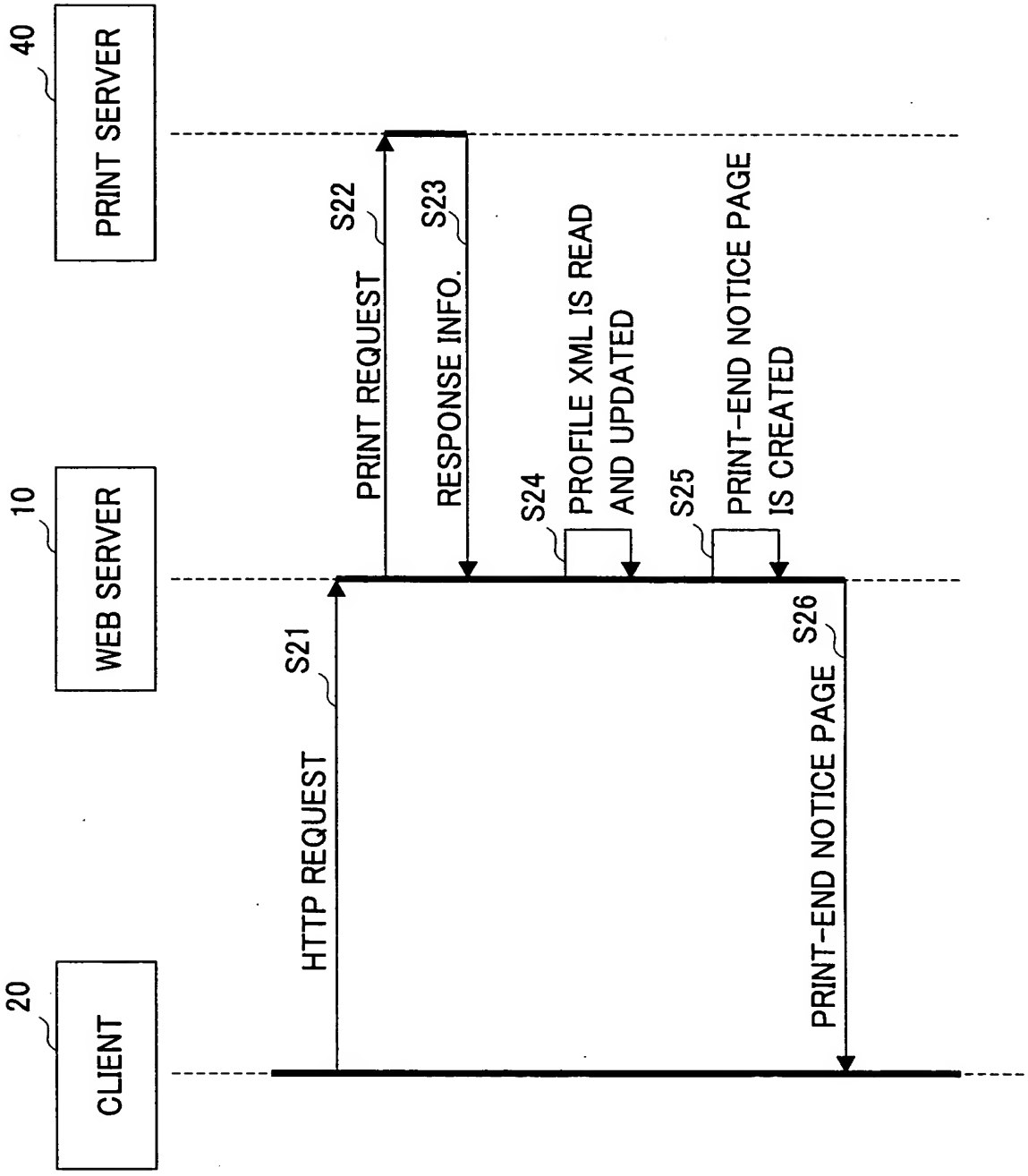

40
PRINT SERVER
10
WEB SERVER
20
CLIENT
S21
HTTP REQUEST
S22
PRINT REQUEST
S23
RESPONSE INFO.
S24
PROFILE XML IS READ AND UPDATED
S25
PRINT-END NOTICE PAGE IS CREATED
S26
PRINT-END NOTICE PAGE

FIG.16

191

```
<?xml version="1.0" encoding="UTF-8"?>
<Profile>
  <PrinterList>
1915  <Printer IPAddress="xxx.xxx.xxx.aaa">
        PRINTER-A
      </Printer>
1916  <Printer IPAddress="xxx.xxx.xxx.bbb">
        PRINTER-B
      </Printer>
1917  <Printer IPAddress="xxx.xxx.xxx.ccc">
        PRINTER-C
      </Printer>
1918  <Printer IPAddress="xxx.xxx.xxx. ddd">
        PRINTER-D
      </Printer>
  </PrinterList>
</Profile>
```

FIG.17

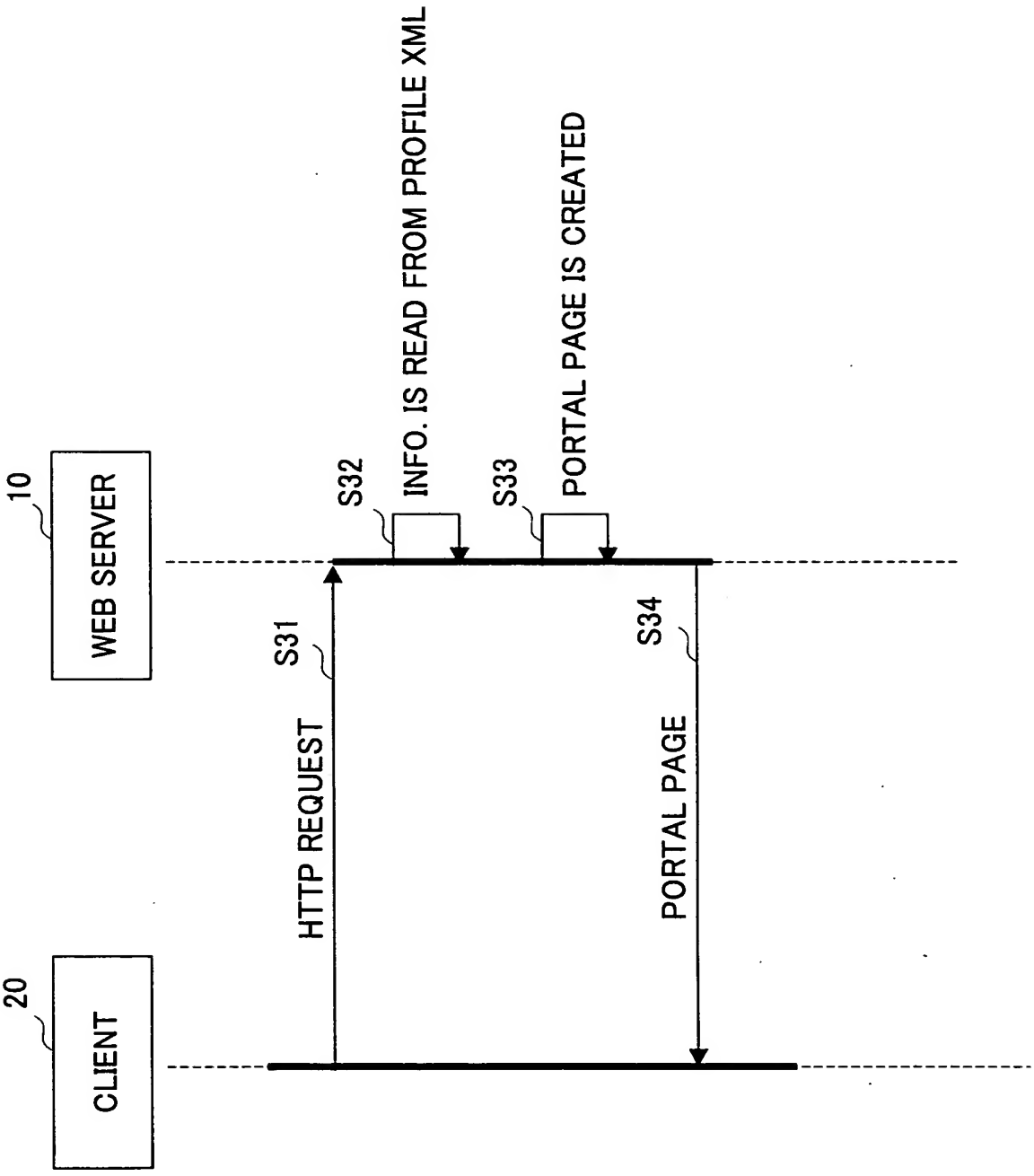

10
WEB SERVER
20
CLIENT
S31
HTTP REQUEST
S32
INFO. IS READ FROM PROFILE XML
S33
PORTAL PAGE IS CREATED
S34
PORTAL PAGE

FIG.18

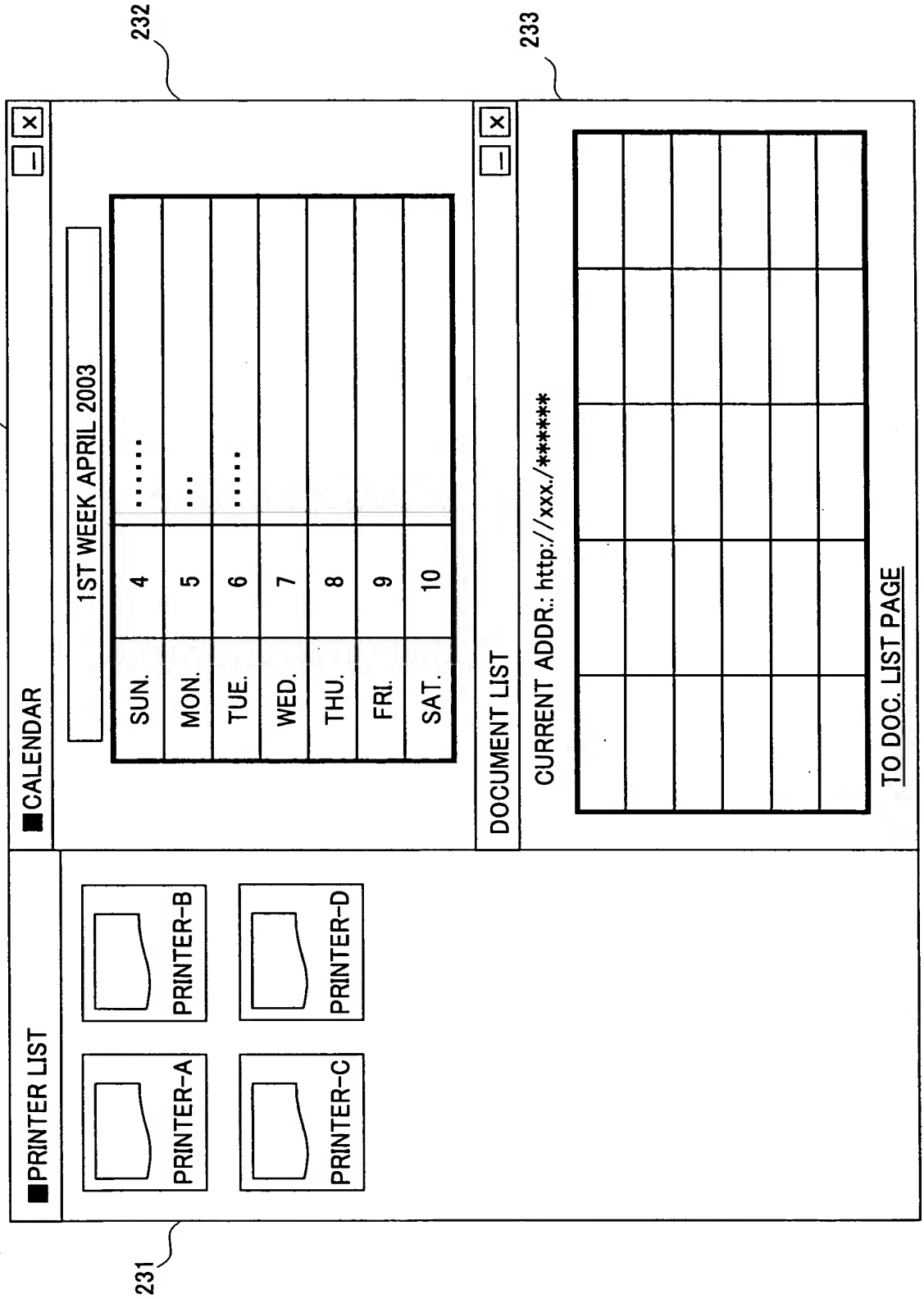

230
231
232
233
■PRINTER LIST
PRINTER-A
PRINTER-B
PRINTER-C
PRINTER-D
■CALENDAR
1ST WEEK APRIL 2003
SUN. 4 .....
MON. 5 ...
TUE. 6 .....
WED. 7
THU. 8
FRI. 9
SAT. 10
DOCUMENT LIST
CURRENT ADDR.: http://xxx./******
TO DOC. LIST PAGE

FIG.19

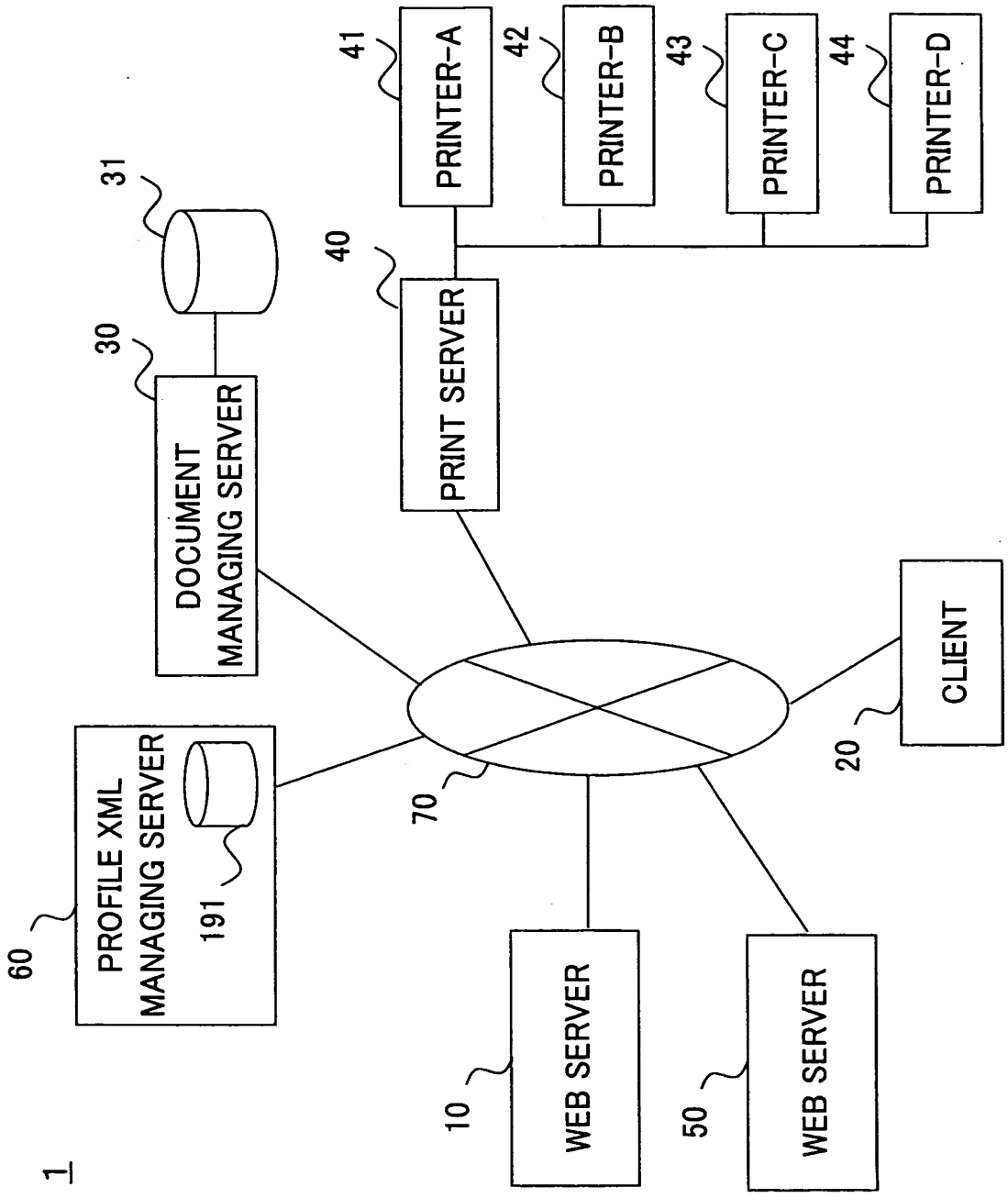

1
60
PROFILE XML MANAGING SERVER
191
30
DOCUMENT MANAGING SERVER
31
40
PRINT SERVER
41
PRINTER-A
42
PRINTER-B
43
PRINTER-C
44
PRINTER-D
70
10
WEB SERVER
50
WEB SERVER
20
CLIENT

FIG.20

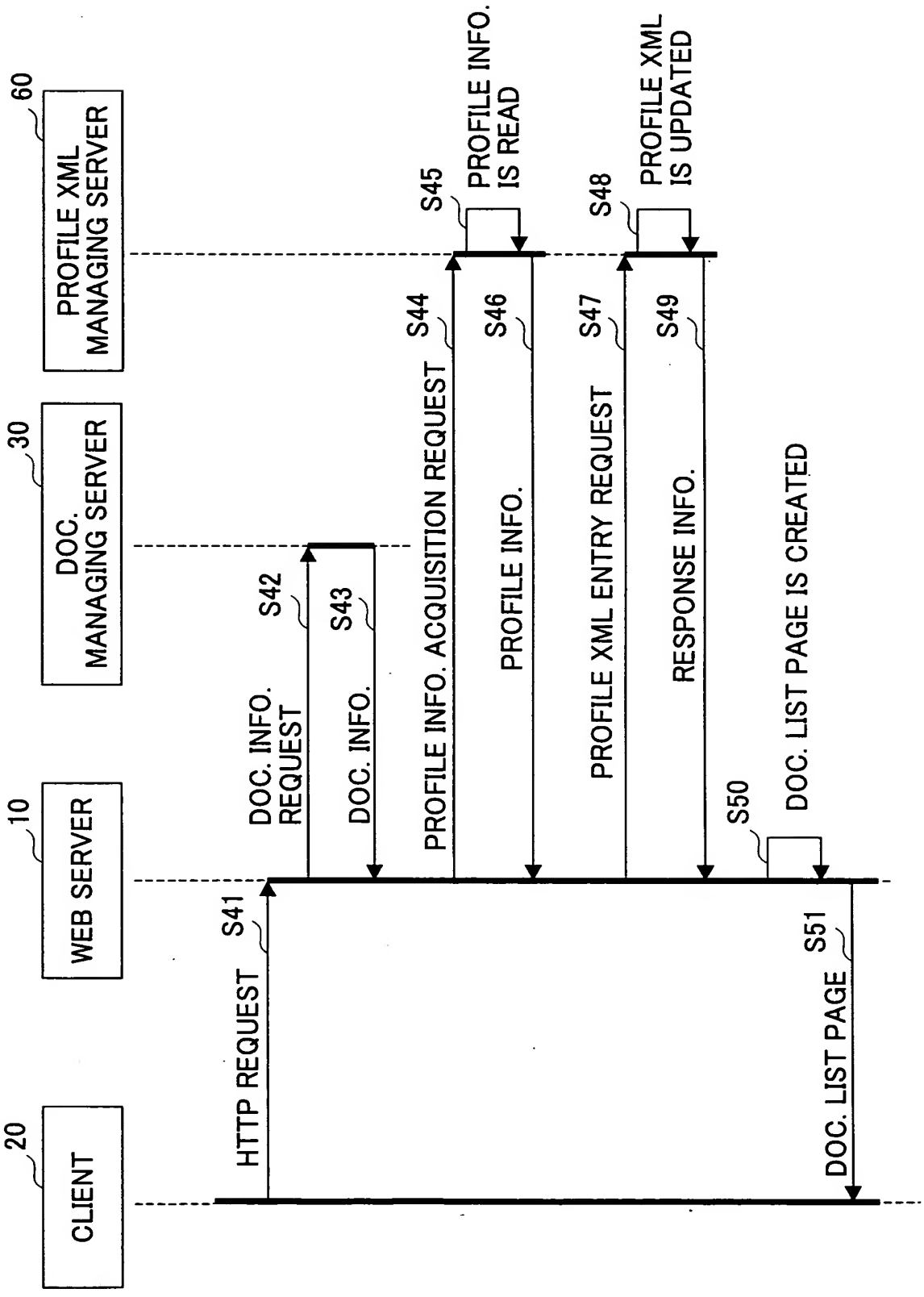
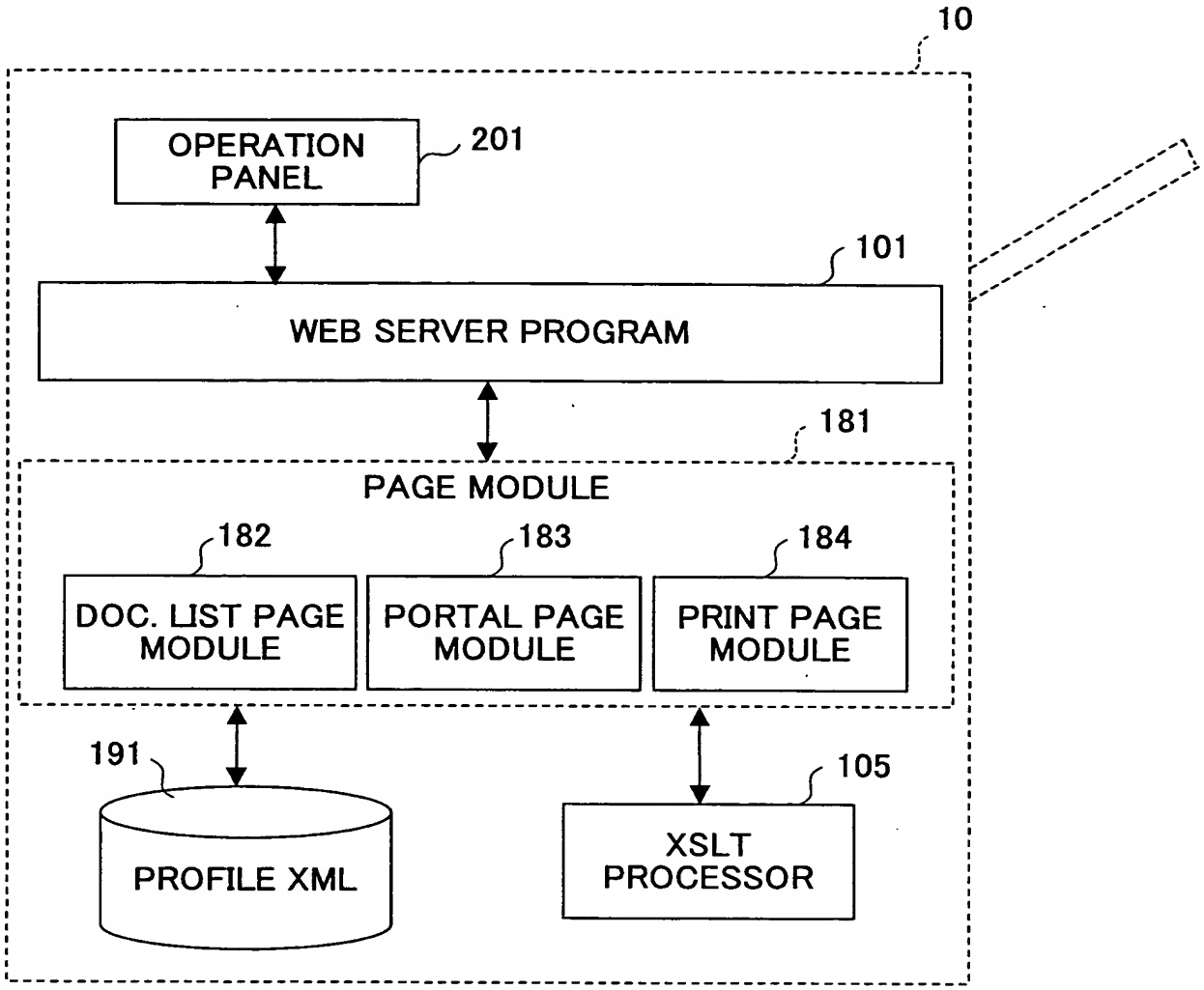

60
PROFILE XML MANAGING SERVER
30
DOC. MANAGING SERVER
10
WEB SERVER
20
CLIENT
S41
HTTP REQUEST
S42
DOC. INFO. REQUEST
S43
DOC. INFO.
S44
PROFILE INFO. ACQUISITION REQUEST
S45
PROFILE INFO. IS READ
S46
PROFILE INFO.
S47
PROFILE XML ENTRY REQUEST
S48
PROFILE XML IS UPDATED
S49
RESPONSE INFO.
S50
DOC. LIST PAGE IS CREATED
S51
DOC. LIST PAGE

FIG.21


10
OPERATION PANEL
201
101
WEB SERVER PROGRAM
181
PAGE MODULE
182
183
184
DOC. LIST PAGE MODULE
PORTAL PAGE MODULE
PRINT PAGE MODULE
191
105
PROFILE XML
XSLT PROCESSOR